PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 3/17/2023 8:20:35 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-181762-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Canton

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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Authorization

Generated 3/17/2023 8:20:35 AM

Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)497-9396 Q

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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-181762-1

Table of Contents

| Cover Page | 1 |
|------------------------|----|
| Table of Contents | 3 |
| Definitions/Glossary | 4 |
| Case Narrative | 5 |
| Method Summary | 6 |
| Sample Summary | 7 |
| Detection Summary | 8 |
| Client Sample Results | 9 |
| Surrogate Summary | 14 |
| QC Sample Results | 15 |
| QC Association Summary | 18 |
| Lab Chronicle | 19 |
| Certification Summary | 20 |
| Chain of Custody | 21 |

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-181762-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|-------------------------------------------------------------------------------------------------------------|
| n | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |

| EDL | Estimated Detection Limit (Dioxin) |
|-----|------------------------------------|
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |

| MCL | EPA recommended "Maximum Contaminant Level" |
|-----|---------------------------------------------------|
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |

| Method Detection Limit |
|---------------------------|
| Minimum Level (Dioxin) |
| Most Probable Number |
| Method Quantitation Limit |
| |

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Page 4 of 22

Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-181762-1

Project/Site: Ford LTP - Off Site

Job ID: 240-181762-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-181762-1

Receipt

The samples were received on 3/11/2023~8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3° C

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Method Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181762-1

| Method | Method Description | Protocol | Laboratory |
|-----------|-------------------------------------|----------|------------|
| 8260D | Volatile Organic Compounds by GC/MS | SW846 | EET CAN |
| 8260D SIM | Volatile Organic Compounds (GC/MS) | SW846 | EET CAN |
| 5030C | Purge and Trap | SW846 | EET CAN |

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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Sample Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181762-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| | | | | |
| 240-181762-1 | TRIP BLANK_7 | Water | 03/08/23 00:00 | 03/11/23 08:00 |
| 240-181762-2 | MW-229D_030823 | Water | 03/08/23 12:40 | 03/11/23 08:00 |
| 240-181762-3 | MW-229_030823 | Water | 03/08/23 14:50 | 03/11/23 08:00 |
| 240-181762-4 | MW-229S_030823 | Water | 03/08/23 15:55 | 03/11/23 08:00 |
| 240-181762-5 | DUP-14 | Water | 03/08/23 00:00 | 03/11/23 08:00 |

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Detection Summary

Project/Site: Ford LTP - Off Site Client Sample ID: TRIP BLANK_7 Lab Sample ID: 240-181762-1 No Detections. Client Sample ID: MW-229D_030823 Lab Sample ID: 240-181762-2 No Detections. Client Sample ID: MW-229_030823 Lab Sample ID: 240-181762-3 No Detections. Client Sample ID: MW-229S_030823 Lab Sample ID: 240-181762-4 No Detections. Client Sample ID: DUP-14 Lab Sample ID: 240-181762-5 No Detections.

14

Job ID: 240-181762-1

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S., Inc.

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Client: ARCADIS U.S., Inc. Job ID: 240-181762-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_7

Lab Sample ID: 240-181762-1 Date Collected: 03/08/23 00:00

Matrix: Water

Date Received: 03/11/23 08:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/14/23 16:34 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/14/23 16:34 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 16:34 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/14/23 16:34 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 16:34 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/14/23 16:34 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 62 - 137 | | | _ | | 03/14/23 16:34 | 1 |
| 4-Bromofluorobenzene (Surr) | 86 | | 56 ₋ 136 | | | | | 03/14/23 16:34 | 1 |
| Toluene-d8 (Surr) | 92 | | 78 - 122 | | | | | 03/14/23 16:34 | 1 |
| Dibromofluoromethane (Surr) | 99 | | 73 - 120 | | | | | 03/14/23 16:34 | 1 |

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Client: ARCADIS U.S., Inc. Job ID: 240-181762-1

Project/Site: Ford LTP - Off Site

Date Received: 03/11/23 08:00

Client Sample ID: MW-229D_030823

Lab Sample ID: 240-181762-2 Date Collected: 03/08/23 12:40

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------------|------------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/17/23 04:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 86 | | 66 - 120 | | | - | | 03/17/23 04:20 | 1 |
| Method: SW846 8260D - Volati | le Organic Comp | ounds by G | C/MS | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/14/23 20:20 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/14/23 20:20 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 20:20 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/14/23 20:20 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 20:20 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/14/23 20:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | | | 62 - 137 | | | - | | 03/14/23 20:20 | 1 |
| 4-Bromofluorobenzene (Surr) | 87 | | 56 - 136 | | | | | 03/14/23 20:20 | 1 |
| Toluene-d8 (Surr) | 93 | | 78 - 122 | | | | | 03/14/23 20:20 | 1 |
| Dibromofluoromethane (Surr) | 102 | | 73 - 120 | | | | | 03/14/23 20:20 | 1 |

Client: ARCADIS U.S., Inc. Job ID: 240-181762-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-229_030823

Lab Sample ID: 240-181762-3 Date Collected: 03/08/23 14:50

Matrix: Water

03/14/23 20:45

Date Received: 03/11/23 08:00

Dibromofluoromethane (Surr)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------|---------------------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/17/23 04:44 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 90 | | 66 - 120 | | | - | | 03/17/23 04:44 | 1 |
| Method: SW846 8260D - Volat | ile Organic Comp | ounds by G | C/MS | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/14/23 20:45 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/14/23 20:45 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 20:45 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/14/23 20:45 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 20:45 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/14/23 20:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 62 - 137 | | | - | | 03/14/23 20:45 | 1 |
| 4-Bromofluorobenzene (Surr) | 86 | | 56 - 136 | | | | | 03/14/23 20:45 | 1 |
| Toluene-d8 (Surr) | 93 | | 78 ₋ 122 | | | | | 03/14/23 20:45 | 1 |

73 - 120

3/17/2023

Client: ARCADIS U.S., Inc. Job ID: 240-181762-1

Project/Site: Ford LTP - Off Site

Dibromofluoromethane (Surr)

Client Sample ID: MW-229S_030823

Date Collected: 03/08/23 15:55 Date Received: 03/11/23 08:00 Lab Sample ID: 240-181762-4

03/14/23 21:10

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------------|------------|---------------------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/17/23 05:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 85 | | 66 - 120 | | | - | | 03/17/23 05:09 | 1 |
| Method: SW846 8260D - Volati | le Organic Comp | ounds by G | C/MS | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/14/23 21:10 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/14/23 21:10 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 21:10 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/14/23 21:10 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 21:10 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/14/23 21:10 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 62 - 137 | | | _ | | 03/14/23 21:10 | 1 |
| 4-Bromofluorobenzene (Surr) | 83 | | 56 - 136 | | | | | 03/14/23 21:10 | 1 |
| Toluene-d8 (Surr) | 90 | | 78 ₋ 122 | | | | | 03/14/23 21:10 | 1 |

73 - 120

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Client: ARCADIS U.S., Inc. Job ID: 240-181762-1

Project/Site: Ford LTP - Off Site

Date Received: 03/11/23 08:00

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Client Sample ID: DUP-14

Date Collected: 03/08/23 00:00

Lab Sample

87

92

94

Lab Sample ID: 240-181762-5

03/14/23 21:35

03/14/23 21:35

03/14/23 21:35

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|------------------|------------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/17/23 05:33 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 66 - 120 | | | - | | 03/17/23 05:33 | 1 |
| - Method: SW846 8260D - Volat | ile Organic Comp | ounds by G | C/MS | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/14/23 21:35 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/14/23 21:35 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 21:35 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/14/23 21:35 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 21:35 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/14/23 21:35 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | | | 62 - 137 | | | | | 03/14/23 21:35 | 1 |

56 - 136

78 - 122

73 - 120

3/17/2023

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Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181762-1

Project/Site: Ford LTP - Off Site

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

| | | | | Percent Sur | rogate Reco |
|--------------------|------------------------|----------|----------|-------------|-------------|
| | | DCA | BFB | TOL | DBFM |
| Lab Sample ID | Client Sample ID | (62-137) | (56-136) | (78-122) | (73-120) |
| 240-181761-F-2 MS | Matrix Spike | 106 | 85 | 92 | 97 |
| 240-181761-I-2 MSD | Matrix Spike Duplicate | 103 | 88 | 92 | 96 |
| 240-181762-1 | TRIP BLANK_7 | 106 | 86 | 92 | 99 |
| 240-181762-2 | MW-229D_030823 | 110 | 87 | 93 | 102 |
| 240-181762-3 | MW-229_030823 | 108 | 86 | 93 | 96 |
| 240-181762-4 | MW-229S_030823 | 109 | 83 | 90 | 101 |
| 240-181762-5 | DUP-14 | 108 | 87 | 92 | 94 |
| LCS 240-565310/5 | Lab Control Sample | 107 | 92 | 97 | 100 |
| MB 240-565310/8 | Method Blank | 110 | 90 | 95 | 97 |

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

| | | | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|------------------------------------------------|
| | | DCA | |
| Lab Sample ID | Client Sample ID | (66-120) | |
| 240-181761-B-2 MS | Matrix Spike | 95 | |
| 240-181761-E-2 MSD | Matrix Spike Duplicate | 89 | |
| 240-181762-2 | MW-229D_030823 | 86 | |
| 240-181762-3 | MW-229_030823 | 90 | |
| 240-181762-4 | MW-229S_030823 | 85 | |
| 240-181762-5 | DUP-14 | 89 | |
| LCS 240-565713/4 | Lab Control Sample | 81 | |
| MB 240-565713/6 | Method Blank | 76 | |

DCA = 1,2-Dichloroethane-d4 (Surr)

Job ID: 240-181762-1

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-565310/8

Matrix: Water

Analysis Batch: 565310

Client Sample ID: Method Blank

Prep Type: Total/NA

| | MB | MB | | | | | | | |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/14/23 13:39 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/14/23 13:39 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 13:39 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/14/23 13:39 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 13:39 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/14/23 13:39 | 1 |
| | | | | | | | | | |

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 03/14/23 13:39 110 4-Bromofluorobenzene (Surr) 90 56 - 136 03/14/23 13:39 03/14/23 13:39 Toluene-d8 (Surr) 95 78 - 122 Dibromofluoromethane (Surr) 97 73 - 120 03/14/23 13:39

Lab Sample ID: LCS 240-565310/5

Matrix: Water

Analysis Batch: 565310

Client Sample ID: Lab Control Sample Prep Type: Total/NA

| | Spike | LCS | LCS | | | | %Rec | |
|--------------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 20.0 | 17.6 | - | ug/L | | 88 | 63 - 134 | |
| cis-1,2-Dichloroethene | 20.0 | 18.6 | | ug/L | | 93 | 77 - 123 | |
| Tetrachloroethene | 20.0 | 20.7 | | ug/L | | 103 | 76 - 123 | |
| trans-1,2-Dichloroethene | 20.0 | 19.9 | | ug/L | | 100 | 75 - 124 | |
| Trichloroethene | 20.0 | 20.1 | | ug/L | | 100 | 70 - 122 | |
| Vinyl chloride | 20.0 | 21.8 | | ug/L | | 109 | 60 - 144 | |
| | | | | | | | | |

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 107 62 - 137 4-Bromofluorobenzene (Surr) 56 - 136 92 Toluene-d8 (Surr) 97 78 - 122 73 - 120 Dibromofluoromethane (Surr) 100

Matrix: Water

Analysis Batch: 565310

Lab Sample ID: 240-181761-F-2 MS Client Sample ID: Matrix Spike Prep Type: Total/NA

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 1.0 | U | 20.0 | 16.6 | | ug/L | | 83 | 56 - 135 | |
| cis-1,2-Dichloroethene | 1.0 | U | 20.0 | 17.0 | | ug/L | | 85 | 66 - 128 | |
| Tetrachloroethene | 1.0 | U | 20.0 | 18.6 | | ug/L | | 93 | 62 - 131 | |
| trans-1,2-Dichloroethene | 1.0 | U | 20.0 | 18.4 | | ug/L | | 92 | 56 - 136 | |
| Trichloroethene | 1.0 | U | 20.0 | 18.5 | | ug/L | | 92 | 61 - 124 | |
| Vinyl chloride | 1.0 | U | 20.0 | 20.8 | | ug/L | | 104 | 43 - 157 | |
| | | | | | | | | | | |

| | MS | MS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 85 | | 56 - 136 |
| Toluene-d8 (Surr) | 92 | | 78 - 122 |

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Page 15 of 22

Client: ARCADIS U.S., Inc.

Job ID: 240-181762-1

Project/Site: Ford LTP - Off Site

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 240-181761-F-2 MS

Lab Sample ID: 240-181761-I-2 MSD

Matrix: Water

Analysis Batch: 565310

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

%Recovery Qualifier

Surrogate Limits Dibromofluoromethane (Surr) 97 73 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 565310

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 1,1-Dichloroethene | 1.0 | U | 20.0 | 16.5 | | ug/L | | 82 | 56 - 135 | 1 | 26 |
| cis-1,2-Dichloroethene | 1.0 | U | 20.0 | 17.1 | | ug/L | | 86 | 66 - 128 | 1 | 14 |
| Tetrachloroethene | 1.0 | U | 20.0 | 19.0 | | ug/L | | 95 | 62 - 131 | 2 | 20 |
| trans-1,2-Dichloroethene | 1.0 | U | 20.0 | 18.4 | | ug/L | | 92 | 56 - 136 | 0 | 15 |
| Trichloroethene | 1.0 | U | 20.0 | 17.7 | | ug/L | | 89 | 61 - 124 | 4 | 15 |
| Vinyl chloride | 1.0 | U | 20.0 | 21.5 | | ug/L | | 107 | 43 - 157 | 3 | 24 |

MSD MSD

MR MR

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 88 | | 56 - 136 |
| Toluene-d8 (Surr) | 92 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 96 | | 73 - 120 |

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-565713/6

Matrix: Water

Analysis Batch: 565713

Client Sample ID: Method Blank Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

Prep Type: Total/NA

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/16/23 23:53 | 1 |
| | МВ | МВ | | | | | | | |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 76 | | 66 - 120 | | 03/16/23 23:53 | 1 |

Lab Sample ID: LCS 240-565713/4

Matrix: Water

Analysis Batch: 565713

| Alialysis Datcii. 3037 13 | | | | | | | |
|---------------------------|-------|--------|-----------|------|---|------|----------|
| | Spike | LCS | LCS | | | | %Rec |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| 1,4-Dioxane | 10.0 | 10.8 | | ug/L | | 108 | 80 - 122 |

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 81

Lab Sample ID: 240-181761-B-2 MS

| Matrix: Water | | | | | | | | | Prep | Type: Total/NA |
|------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|----------------|
| Analysis Batch: 565713 | | | | | | | | | | |
| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,4-Dioxane | 2.0 | U | 10.0 | 13.6 | | ug/L | | 136 | 51 - 153 | |

Eurofins Canton

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181762-1

Project/Site: Ford LTP - Off Site

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

%Recovery Qualifier

89

| | MS | MS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 66 - 120 |

| Lab Sample | ID: 240-181761-E | -2 MSD |
|------------|------------------|--------|
|------------|------------------|--------|

Matrix: Water

Surrogate

1,2-Dichloroethane-d4 (Surr)

| Analysis Batch: 565713 | | | | | | | | | | | |
|------------------------|--------|-----------|-------|--------|-----------|------|-------------|------|----------|-----|-------|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 1,4-Dioxane | 2.0 | U | 10.0 | 13.4 | | ug/L | | 134 | 51 - 153 | 1 | 16 |
| | MSD | MSD | | | | | | | | | |

Limits

66 - 120

.1

3

4

6

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

7

8

4.6

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QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181762-1

GC/MS VOA

Analysis Batch: 565310

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-181762-1 | TRIP BLANK_7 | Total/NA | Water | 8260D | |
| 240-181762-2 | MW-229D_030823 | Total/NA | Water | 8260D | |
| 240-181762-3 | MW-229_030823 | Total/NA | Water | 8260D | |
| 240-181762-4 | MW-229S_030823 | Total/NA | Water | 8260D | |
| 240-181762-5 | DUP-14 | Total/NA | Water | 8260D | |
| MB 240-565310/8 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-565310/5 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-181761-F-2 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 240-181761-I-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |

Analysis Batch: 565713

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-181762-2 | MW-229D_030823 | Total/NA | Water | 8260D SIM | |
| 240-181762-3 | MW-229_030823 | Total/NA | Water | 8260D SIM | |
| 240-181762-4 | MW-229S_030823 | Total/NA | Water | 8260D SIM | |
| 240-181762-5 | DUP-14 | Total/NA | Water | 8260D SIM | |
| MB 240-565713/6 | Method Blank | Total/NA | Water | 8260D SIM | |
| LCS 240-565713/4 | Lab Control Sample | Total/NA | Water | 8260D SIM | |
| 240-181761-B-2 MS | Matrix Spike | Total/NA | Water | 8260D SIM | |
| 240-181761-E-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D SIM | |

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Q

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11

Job ID: 240-181762-1

Matrix: Water

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_7

Date Collected: 03/08/23 00:00 Date Received: 03/11/23 08:00

Lab Sample ID: 240-181762-1

Matrix: Water

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|--------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 565310 | TES | EET CAN | 03/14/23 16:34 |

Client Sample ID: MW-229D_030823 Lab Sample ID: 240-181762-2

Date Collected: 03/08/23 12:40

Date Received: 03/11/23 08:00

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 565310 | TES | EET CAN | 03/14/23 20:20 |
| Total/NA | Analysis | 8260D SIM | | 1 | 565713 | BAJ | EET CAN | 03/17/23 04:20 |

Client Sample ID: MW-229_030823 Lab Sample ID: 240-181762-3

Date Collected: 03/08/23 14:50 Matrix: Water

Date Received: 03/11/23 08:00

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 565310 | TES | EET CAN | 03/14/23 20:45 |
| Total/NA | Analysis | 8260D SIM | | 1 | 565713 | BAJ | EET CAN | 03/17/23 04:44 |

Lab Sample ID: 240-181762-4 Client Sample ID: MW-229S_030823

Date Collected: 03/08/23 15:55 **Matrix: Water**

Date Received: 03/11/23 08:00

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 565310 | TES | EET CAN | 03/14/23 21:10 |
| Total/NA | Analysis | 8260D SIM | | 1 | 565713 | BAJ | EET CAN | 03/17/23 05:09 |

Client Sample ID: DUP-14 Lab Sample ID: 240-181762-5

Date Collected: 03/08/23 00:00 **Matrix: Water**

Date Received: 03/11/23 08:00

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 565310 | TES | EET CAN | 03/14/23 21:35 |
| Total/NA | Analysis | 8260D SIM | | 1 | 565713 | BAJ | EET CAN | 03/17/23 05:33 |

Laboratory References:

EET CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Eurofins Canton

3/17/2023

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181762-1

Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------------------|---------|-----------------------|-----------------|
| California | State | 2927 | 02-27-23 * |
| Connecticut | State | PH-0590 | 12-31-23 |
| Florida | NELAP | E87225 | 06-30-23 |
| Georgia | State | 4062 | 02-27-23 * |
| Illinois | NELAP | 200004 | 07-31-23 |
| Iowa | State | 421 | 06-01-23 |
| Kentucky (UST) | State | 112225 | 02-27-23 * |
| Kentucky (WW) | State | KY98016 | 12-31-23 |
| Michigan | State | 9135 | 02-27-23 * |
| Minnesota | NELAP | 039-999-348 | 12-31-23 |
| Minnesota (Petrofund) | State | 3506 | 08-01-23 |
| New Jersey | NELAP | OH001 | 06-30-23 |
| New York | NELAP | 10975 | 04-01-23 |
| Ohio | State | 8303 | 02-27-23 * |
| Ohio VAP | State | CL0024 | 02-27-23 * |
| Oregon | NELAP | 4062 | 02-28-24 |
| Pennsylvania | NELAP | 68-00340 | 08-31-23 |
| Texas | NELAP | T104704517-22-17 | 08-31-23 |
| Virginia | NELAP | 460175 | 09-14-23 |
| West Virginia DEP | State | 210 | 12-31-23 |

 $^{^{\}star}\,\text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

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| Client Contact | Regulatory program: | wd 🗆 | NPDES RCRA | Other | | | | |
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| Company Name: Areadis | | | | | | | | TestAmerica Laboratories, Inc. |
| Address: 2850 Cabos Drive Suite 500 | Client Project Manager: Kris Hinskey | | Site Contact: Christina Weaver | | Lab Contact: | Lab Contact: Mike DelMonico | e | COC No: |
| MULTISSE SOLVED CAUNTY THE COURSE COU | Telephone: 248-994-2240 | | Telephone: 248-994-2240 | | Telephone: 330-497-9396 | 0-497-9396 | | |
| City/State/Lap: 1904, 701, 485 / | Email: kristoffer.hinskey@arcadis.com | lis.com | Analysis Iurnaround Ilme | | | Analyse | es | For lab use only |
| Phone: 248-994-2240 | | | | | _ | | | |
| Project Name: Ford LTP Off-Site Project Number: 30167538.402.04 | Sampler Name: Sampler Name: Method of Shipment/Carrier: | spay chler | 1 A 1 if different from below 3 weeks 10 day 2 weeks | | | | М | Walk-in client Lab sampling |
| 7 0 007 0000 77 07 0 | | | 2 days | - | - | 809 | IS 8 | |
| P() # 30167538.402,04 | Shipping/Tracking No: | | l day | 19/S | 0978 | 978 9 | 0978 | Job/SDG No: |
| Sample Identification | Sample Date Sample Time | Orber: | оцисы да | Filtered Sam Composite | cis-1,2-DCE | Vinyl Chlorid | ensxoiG-⊅,I | Sample Specific Notes / Special Instructions: |
| TRIP BLANK_7 | 3/8/23 | | - | У О 2 | × | × | | 1 Trip Blank |
| 0 MW-229D_030823 | 3/8/23 1240 | ٥ | 2 | X 67 | メメ | メメ | X | 3 VOAs for 8260B 3 VOAs for 8260B SIM |
| 828050_P55-WM 0 | 38/23/1480 | 9 | 3 | × 95 | \(\times\) | XXX | + | " " |
| 0 MW - 2295 J350823 | 38/23 1555 | 2 | و | × 9Ω | \(\frac{2}{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\}\eta}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\\ \ti}\\\ \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\\ \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\texi}\text{\text{\texi}\text{\texi}\text{\ti}\tint{\ti}}\tint{\tiint}\text{\text{\texit{\text{\texi}\text{\texit{\text{\t | X | , X | 11 |
| 0 Dup-14 -03002 (55) | - 52/8/5 | e | 9 | N.S. | × | XX | X | 11 11 |
| | | | | | | | | |
| | | | | | | n of Custody | 240-181762 Chain of Custody | |
| | | | | _ | | | | |
| Possible Hazard Identification Non-Hazard Flammable Skin Irritant | tant Poison B Un | ліспочт | Sample Disposal (A fee may be assessed if samples are retained longer than I Return to Client Disposal By Lab | be assessed if sam Disposal By Lab | ples are retained | | month) Months | |
| VOC Requirements & Comment LEON ROVE through Cadena at fromaliag g requested. | | | | | | | o production of the control of the c | |
| Relinquished by: Markh Brown | Company: | Date/Time; 2/4/23 K | D735 Received by: | cod | sprag | Company | nodis | 3/1/23 0183 |
| Relinquished by | Company | 2/0/23 / | OSKS Received by: | N | 0 | Company: | 6 | 2) 10/23 / OK |
| Relinquished by: | Company: | Date/Time: | (2) Receiped of Laboratory by | Aboratory by | BL | Company | 1 | 37723 8.00 |
| |) | 1 1 1 1 | | - | 1 | 1 | | |

<u>TestAmerica</u>

Chain of Custody Record

| Eurofins - Canton Sample Receipt Form/Narrative Barberton Facility | Login # : |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Client Fract Site Name | Cooler unpacked by: |
| Cooler Received on 3-11-23 Opened on 3-11-23 | Mandaly |
| FedEx: 1st Grd Exp UPS FAS Clippe Client Drop Off Eurofin | s Courier Other |
| | rage Location |
| Eurofins Cooler # Cooler Box Client Cooler Box | Other |
| Packing material used: Bubble Wap Foam Plastic Bag None | |
| COOLANT: Wet Ice Blue Ice Dry Ice Water None 1. Cooler temperature upon receipt | Multiple Cooler Form |
| | rrected Cooler Temp. °C |
| A special control of the control of | orrected Cooler Temp 0.3 °C |
| IR GUN # IR-17 (CF -0.3°C) Observed Cooler Temp. °C Co | prrected Cooler Temp°C |
| 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quanti | ty Yes No |
| -Were the seals on the outside of the cooler(s) signed & dated? | Yes No NA Tests that are not checked for pH by |
| -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg) | ? Yes No Receiving: |
| -Were tamper/custody seals intact and uncompromised? | Ved No NA |
| 3. Shippers' packing slip attached to the cooler(s)? | Yes (10) VOAs Oil and Grease |
| 4. Did custody papers accompany the sample(s)? | TOC TOC |
| 5. Were the custody papers relinquished & signed in the appropriate place?6. Was/were the person(s) who collected the samples clearly identified on the | e COC? Yes No |
| 7. Did all bottles arrive in good condition (Unbroken)? | No No |
| 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? | Yes No |
| 9. For each sample, does the COC specify preservatives (Ŷ)/N), # of containe | rs(Y/N), and sample type of grab/comp(Y/N)? |
| 10. Were correct bottle(s) used for the test(s) indicated? | No No |
| 11. Sufficient quantity received to perform indicated analyses? | Ke No |
| 12. Are these work share samples and all listed on the COC? | Yes N |
| If yes, Questions 13-17 have been checked at the originating laboratory. | V V (V V V V V V V V V V V V V V V V V |
| 13. Were all preserved sample(s) at the correct pH upon receipt? 14. Were VOAs on the COC? | Yes No NA pH Strip Lot# HC293086 |
| 15. Were air bubbles >6 mm in any VOA vials? Larger than this. | Yes No Yes NA |
| 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # | Yes No |
| 17. Was a LL Hg or Me Hg trip blank present? | Yes (No) |
| Contacted PM Date by | _ via Verbal Voice Mail Other |
| Concerning | |
| Concerning | |
| | |
| 18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ addition | nal next page Samples processed by: |
| | |
| | |
| | |
| | |
| 19. SAMPLE CONDITION | |
| Sample(s) were received after the reco | mmended holding time had expired |
| Sample(s) | were received in a broken container. |
| Sample(s) were received with I | _ |
| | |
| 20. SAMPLE PRESERVATION | |
| Sample(s) | were further preserved in the laboratory. |
| Sample(s) Time preserved: Preservative(s) added/Lot number(s): | |
| VOA Sample Preservation - Date/Time VOAs Frozen: | |

DATA VERIFICATION REPORT



March 20, 2023

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30167538.402.04 off-site

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory submittal: 181762-1 Sample date: 2023-03-08

Report received by CADENA: 2023-03-20

Initial Data Verification completed by CADENA: 2023-03-20

Number of Samples:5 Sample Matrices:Water Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

| Valid Qualifiers | Description |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| < | Less than the reported concentration. |
| > | Greater than the reported concentration. |
| В | The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration. |
| Е | The analyte / Compound reported exceeds the calibration range and is considered estimated. |
| EMPC | Estimated Minimum Potential Contamination - Dioxin/Furan analyses only. |
| J | Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies. |
| J- | The result is an estimated quantity, but the result may be biased low. |
| JB | NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED |
| JH | The sample result is considered estimated and is potentially biased high. |
| JL | The sample result is considered estimated and is potentially biased low. |
| JUB | NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED |
| NJ | Tentatively identified compound with approximated concentration. |
| R | Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.) |
| TNTC | Too Numerous to Count - Asbestos and Microbiological Results. |
| U | Indicates that the analyte / compound was analyzed for, but not detected. |
| UB | The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL. |
| UJ | The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample. |

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory Submittal: 181762-1

| | | Sample Name: | TRIP BLA | ANK_7 | | | MW-22 | 9D_0308 | 23 | | MW-22 | 9_03082 | 3 | | MW-229 | 95_03082 | 23 | | DUP-14 | | | |
|-----------|--------------------------|----------------|----------|--------|-------|-----------|---------|---------|-------|-----------|---------|---------|-------|-----------|---------|----------|-------|-----------|---------|--------|-------|-----------|
| | | Lab Sample ID: | 2401817 | 7621 | | | 240181 | 7622 | | | 240181 | 7623 | | | 2401817 | 7624 | | | 2401817 | /625 | | |
| | | Sample Date: | 3/8/202 | 3 | | | 3/8/202 | 23 | | | 3/8/202 | 3 | | | 3/8/202 | 3 | | | 3/8/202 | 3 | | |
| | | | | Report | | Valid | | Report | | Valid | | Report | | Valid | | Report | | Valid | | Report | | Valid |
| | Analyte | Cas No. | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier |
| GC/MS VOC | | | | | | | | | | | | | | | | | | | | | | |
| OSW-826 | <u>0D</u> | | | | | | | | | | | | | | | | | | | | | |
| | 1,1-Dichloroethene | 75-35-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | cis-1,2-Dichloroethene | 156-59-2 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Tetrachloroethene | 127-18-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | trans-1,2-Dichloroethene | 156-60-5 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Trichloroethene | 79-01-6 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Vinyl chloride | 75-01-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| OSW-826 | <u>ODSIM</u> | | | | | | | | | | | | | | | | | | | | | |
| | 1,4-Dioxane | 123-91-1 | | | | | ND | 2.0 | ug/l | | ND | 2.0 | ug/l | | ND | 2.0 | ug/l | | ND | 2.0 | ug/l | |



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-181762-1

CADENA Verification Report: 2023-03-20

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49126R Review Level: Tier III Project: 30167538.601.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-181762-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

| | | | Sample Collection | | Analysis | | |
|----------------|--------------|--------|-------------------|---------------|----------|---------|--|
| Sample ID | Lab ID | Matrix | Date | Parent Sample | voc | VOC SIM | |
| TRIP BLANK_7 | 240-181762-1 | Water | 03/08/23 | | Х | | |
| MW-229D_030823 | 240-181762-2 | Water | 03/08/23 | | Х | Х | |
| MW-229_030823 | 240-181762-3 | Water | 03/08/23 | | Х | Х | |
| MW-229S_030823 | 240-181762-4 | Water | 03/08/23 | | Х | Х | |
| DUP-14 | 240-181762-5 | Water | 03/08/23 | MW-229_030823 | Х | Х | |

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

| Items Reviewed | Repo | | mance ptable | Not | |
|--------------------------------------------------------------------|------|-----|-----------------|-----|----------|
| | No | Yes | No | Yes | Required |
| Sample receipt condition | | X | | X | |
| 2. Requested analyses and sample results | | Х | | Х | |
| Master tracking list | | Х | | Х | |
| 4. Methods of analysis | | Х | | X | |
| 5. Reporting limits | | Х | | X | |
| 6. Sample collection date | | X | | X | |
| 7. Laboratory sample received date | | Х | | Х | |
| 8. Sample preservation verification (as applicable) | | Х | | Х | |
| Sample preparation/extraction/analysis dates | | Х | | Х | |
| 10. Fully executed Chain-of-Custody (COC) form | | Х | | Х | |
| Narrative summary of Quality Assurance or sample problems provided | | Х | | Х | |
| 12. Data Package Completeness and Compliance | | Х | | Х | |

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

| Method | Matrix | Holding Time | Preservation |
|------------------------|--------|-------------------------------------|---------------------------------|
| SW-846 8260D/8260D-SIM | Water | 14 days from collection to analysis | Cool to < 6 °C; pH < 2 with HCl |

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field

duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

| Sample ID/Duplicate ID | Compound | Sample Result | Duplicate Result | RPD |
|------------------------|----------------------|------------------|---------------------|-----|
| MW-229_030823/DUP-14 | All target compounds | U | U | AC |

Notes:

AC Acceptable
U Non detect

The calculated RPDs between the parent sample and field duplicate were acceptable.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

| VOCs: 8260D/8260D-SIM | Rep | orted | | rmance eptable | Not |
|-------------------------------------------------------------|-------|-------|----|-------------------|----------|
| | No | Yes | No | Yes | Required |
| GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G | C/MS) | | | | |
| Tier II Validation | | | | | |
| Holding times/Preservation | | Х | | Х | |
| Tier III Validation | | | | | |
| System performance and column resolution | | Х | | Х | |
| Initial calibration %RSDs | | Х | | Х | |
| Continuing calibration RRFs | | Х | | Х | |
| Continuing calibration %Ds | | Х | | Х | |
| Instrument tune and performance check | | Х | | Х | |
| Ion abundance criteria for each instrument used | | Х | | Х | |
| Field Duplicate RPD | | Х | | Х | |
| Internal standard | | Х | | Х | |
| Compound identification and quantitation | | | | | |
| A. Reconstructed ion chromatograms | | Х | | Х | |
| B. Quantitation Reports | | Х | | Х | |
| C. RT of sample compounds within the established RT windows | | Х | | Х | |
| D. Transcription/calculation errors present | | Х | | X | |
| E. Reporting limits adjusted to reflect sample dilutions | | Х | | Х | |

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Dilip Kumar

SIGNATURE:

DATE: March 29, 2023

PEER REVIEW: Andrew Korycinski

DATE: March 30, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Client Contact Regulatory program: DW ■ NPDES RCRA Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, M1, 48377 1 of 1 COCs Email: kristoffer.hinskey@arcadis.com Analysis Turnaround Time Analyses For lab use only Phone: 248-994-2240 TAT if different from below Walk-in client Sampler Name: Project Name: Ford LTP Off-Site 3 weeks amento fray chile ✓ 2 weeks Lab sampling 1 week Project Number: 30167538.402.04 Method of Shipment/Carrier: SIM uple (Y/N) 8260B 2 days Vinyl Chloride 8260B 1,4-Dioxane 8260B Shipping/Tracking No: cis-1,2-DCE 8260B PO# 30167538.402.04 1 day Job/SDG No: Containers & Preservatives Sample Specific Notes / NaOH HN03 HC Special Instructions: Sample Date | Sample Time Sample Identification TRIP BLANK 7 3/8/23 NIG X X X X X X 1 Trip Blank 6 3 VOAs for 8260B MW-229D_030823 6 3 VOAs for 8260B SIM 1450 11 38 23 1555 6 3/8/27 11 4 240-181762 Chain of Custody Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ✓ Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal By Lab Archive For Special Instructions/QC Requirements & Comments: Sample Address: LEON ROW
Submit all results through Cadena at jtomalia@cadenaco.com, Cadena #E203631 Sample Address: Level IV Reporting requested. Relinquished by: 10733 0133 NOU Relinquished by 3/10/23 Relinquished by:

3/10/12

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Page

371 of 372

Client: ARCADIS U.S., Inc. Job ID: 240-181762-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_7

Lab Sample ID: 240-181762-1 Date Collected: 03/08/23 00:00 **Matrix: Water**

Date Received: 03/11/23 08:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/14/23 16:34 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/14/23 16:34 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 16:34 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/14/23 16:34 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 16:34 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/14/23 16:34 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 62 - 137 | | | | | 03/14/23 16:34 | 1 |
| 4-Bromofluorobenzene (Surr) | 86 | | 56 ₋ 136 | | | | | 03/14/23 16:34 | 1 |
| Toluene-d8 (Surr) | 92 | | 78 - 122 | | | | | 03/14/23 16:34 | 1 |
| Dibromofluoromethane (Surr) | 99 | | 73 - 120 | | | | | 03/14/23 16:34 | 1 |

Client Sample ID: MW-229D_030823

Date Collected: 03/08/23 12:40

Date Received: 03/11/23 08:00

Lab Sample ID: 240-181762-2 **Matrix: Water**

| Method: SW846 8260D SIN | I - Volatile Orga | anic Comp | ounds (GC/N | 1S) | | | | | |
|------------------------------|-------------------|-----------|-------------|------|------|-------------|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/17/23 04:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 86 | | 66 - 120 | | | | | 03/17/23 04:20 | 1 |

| Method: SW846 8260D - Vo | latile Organic | Compounds | by GC/MS | | | | | | |
|--------------------------|----------------|-----------|----------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/14/23 20:20 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/14/23 20:20 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 20:20 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/14/23 20:20 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 20:20 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/14/23 20:20 | 1 |
| | | | | | | | | | |

| 1 | Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| ۱ | 1,2-Dichloroethane-d4 (Surr) | 110 | | 62 - 137 | | 03/14/23 20:20 | 1 |
| ١ | 4-Bromofluorobenzene (Surr) | 87 | | 56 - 136 | | 03/14/23 20:20 | 1 |
| ١ | Toluene-d8 (Surr) | 93 | | 78 - 122 | | 03/14/23 20:20 | 1 |
| L | Dibromofluoromethane (Surr) | 102 | | 73 - 120 | | 03/14/23 20:20 | 1 |

Client Sample ID: MW-229_030823

Date Collected: 03/08/23 14:50 Date Received: 03/11/23 08:00

Lab Sample ID: 240-181762-3 **Matrix: Water**

| Method: SW846 8260D SIM | l - Volatile Orga | atile Organic Compounds (GC/MS) | | | | | | | |
|------------------------------|-------------------|---------------------------------|----------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/17/23 04:44 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 90 | | 66 - 120 | | | - | | 03/17/23 04:44 | 1 |

Eurofins Canton

Page 8 of 372

Client: ARCADIS U.S., Inc. Job ID: 240-181762-1

Project/Site: Ford LTP - Off Site

Date Collected: 03/08/23 14:50 Matrix: Water Date Received: 03/11/23 08:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/14/23 20:45 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/14/23 20:45 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 20:45 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/14/23 20:45 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 20:45 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/14/23 20:45 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 62 - 137 | | | | | 03/14/23 20:45 | 1 |
| 4-Bromofluorobenzene (Surr) | 86 | | 56 ₋ 136 | | | | | 03/14/23 20:45 | 1 |
| Toluene-d8 (Surr) | 93 | | 78 - 122 | | | | | 03/14/23 20:45 | 1 |
| Dibromofluoromethane (Surr) | 96 | | 73 - 120 | | | | | 03/14/23 20:45 | 1 |

Date Collected: 03/08/23 15:55 Date Received: 03/11/23 08:00

Surrogate

1,2-Dichloroethane-d4 (Surr)

| Method: SW846 8260D SIM | - Volatile Orga | anic Comp | ounds (GC/N | NS) | | | | | |
|------------------------------|-----------------|-----------|-------------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/17/23 05:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 85 | | 66 - 120 | | | - | | 03/17/23 05:09 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/14/23 21:10 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/14/23 21:10 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 21:10 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/14/23 21:10 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/23 21:10 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/14/23 21:10 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 62 - 137 | | 03/14/23 21:10 | 1 |
| 4-Bromofluorobenzene (Surr) | 83 | | 56 - 136 | | 03/14/23 21:10 | 1 |
| Toluene-d8 (Surr) | 90 | | 78 - 122 | | 03/14/23 21:10 | 1 |
| Dibromofluoromethane (Surr) | 101 | | 73 - 120 | | 03/14/23 21:10 | 1 |

Client Sample ID: DUP-14

Date Collected: 03/08/23 00:00

Lab Sample ID: 240-181762-5

Matrix: Water

| | Date Received: 03/11/23 08:00 | | | | | | | | | |
|--------------------------------------------------------------|-------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS) | | | | | | | | | | |
| | Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/17/23 05:33 | 1 |

Limits

66 - 120

%Recovery Qualifier

89

Eurofins Canton

Prepared

Analyzed

03/17/23 05:33

03/19/2023

Matrix: Water